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PATENT COOPERATION TREATY

From the:

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

CORRECTED VERSION

To:		PCT NOTIFICATION OF TRANSMITTAL OF CORRECTED INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Rule 71.1)	
Baldwins PO Box 852 Wellington 6001 NEW ZEALAND			
Date of mailing day/month/year		14 JAN 2005	
Applicant's or agent's file reference J215171/142		IMPORTANT NOTIFICATION	
International Application No. PCT/NZ2002/000130	International Filing Date 24 July 2002	Priority Date 24 July 2002	
Applicant UNISYS CORPORATION et al			

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide

Name and mailing address of the IPÉA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929	Authorized officer I.A. BARRETT Telephone No. (02) 6283 2189
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PATENT COOPERATION TREATY
PCT
CORRECTED INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference J215171/142	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).	
International Application No. PCT/NZ2002/000130	International Filing Date (day/month/year) 24 July 2002	Priority Date (day/month/year) 24 July 2002
International Patent Classification (IPC) or national classification and IPC Int. Cl. ⁷ G02F 1/1335		
Applicant UNISYS CORPORATION et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 2 sheet(s).

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 23 February 2004	Date of completion of the report 14 January 2005
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer I.A. BARRETT Telephone No. (02) 6283 2189

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NZ2002/000130

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed.
- ☒ the description, pages 1-10, as originally filed,
pages , filed with the demand,
pages , received on with the letter of
- ☒ the claims, pages , as originally filed,
pages , as amended (together with any statement) under Article 19,
pages , filed with the demand,
pages 11,12, received on 21 December 2004 with the letter of 21 December 2004
- ☒ the drawings, pages 1-11, as originally filed,
pages , filed with the demand,
pages , received on with the letter of
- ☐ the sequence listing part of the description:
pages , as originally filed
pages , filed with the demand
pages , received on with the letter of

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/fig.

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NZ2002/000130

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-12	YES
	Claims	NO
Inventive step (IS)	Claims 1-12	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-12	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

The prior art listed in the search report does not disclose an imaging screen having an array of light sensitive pixels in combination with an optical layer comprising an array of light guides as specified in claims 1-11. The invention of claims 1-11 is considered novel and inventive over the prior art cited in the search report. Similarly, the invention of claim 12 does not appear to be disclosed or suggested by the prior art.

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Claims

- 5 1. An imaging screen having an array of light sensitive pixel devices arranged
in a first lattice pattern; and an optical layer having an array of light guides,
each light guide having a input end and an output end, the input ends
being arranged in a second lattice pattern, and the output ends being
10 arranged in the first lattice pattern and directed towards the pixel devices
whereby the light guides guide light from their input ends to their output
ends and onto the pixel devices.
- 15 2. An imaging screen according to claim 1 wherein the light guides have light
reflecting walls which each guide light towards a respective pixel device.
3. An imaging screen according to claim 1 or 2 wherein the first or second
lattice pattern is a hexagonal lattice pattern.
- 20 4. An imaging screen according to claim 3 wherein one of the lattice patterns
is a hexagonal lattice pattern and the other lattice pattern is a rectangular
lattice pattern.
- 25 5. An imaging screen according to any of claims 1 to 4 wherein the first end
of each light guide has a first shape, and the second end of each light
guide has a second shape.
6. An imaging screen according to claim 5 wherein the first or second shape
is substantially hexagonal.
- 30 7. An imaging screen according to claim 6 wherein one of the shapes is
substantially hexagonal and the other shape is substantially rectangular.
8. An imaging screen according to any of claims 1 to 7 wherein the optical
layer physically engages the pixel devices.
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9. An imaging device having a screen according to any of claims 1 to 8; and an output interface for receiving image data from the light sensitive pixel devices.
- 5 10. An imaging device according to claim 9 having a resampler programmed to: receive the image data from the output interface, resample the image data into a format compatible with a different lattice pattern, and output the resampled image data.
- 10 11. An imaging device according to claim 10; wherein the device is hand-held and portable.
12. A display device including:
- 15 (a) a display screen including an array of pixel devices arranged in a first lattice pattern; and an optical layer having an array of light guides, each light guide having a input end and an output end, the output ends being arranged in a second lattice pattern, and the input ends being arranged in the first lattice pattern and directed towards the pixel devices whereby the light guides
- 20 guide light from the pixel devices from their input ends to their output ends;
- (b) a screen drive for driving the pixel devices in accordance with a set of image data; and
- 25 (c) a resampler programmed to receive image data in a format compatible with the first lattice pattern, resample the image data into a format compatible with the second lattice pattern and output the resampled image data to the screen drive.